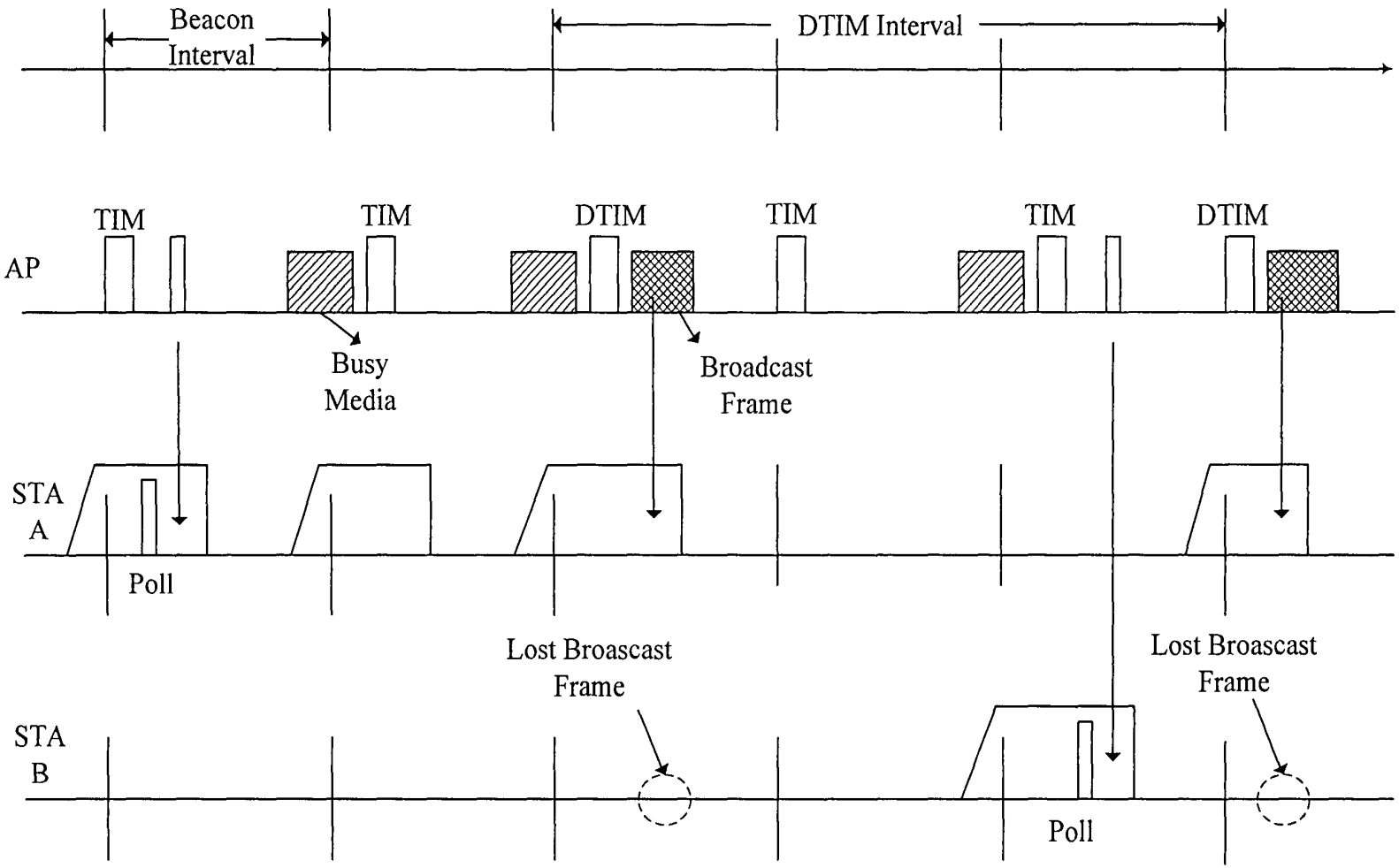

FIG. 1 PRIOR ART

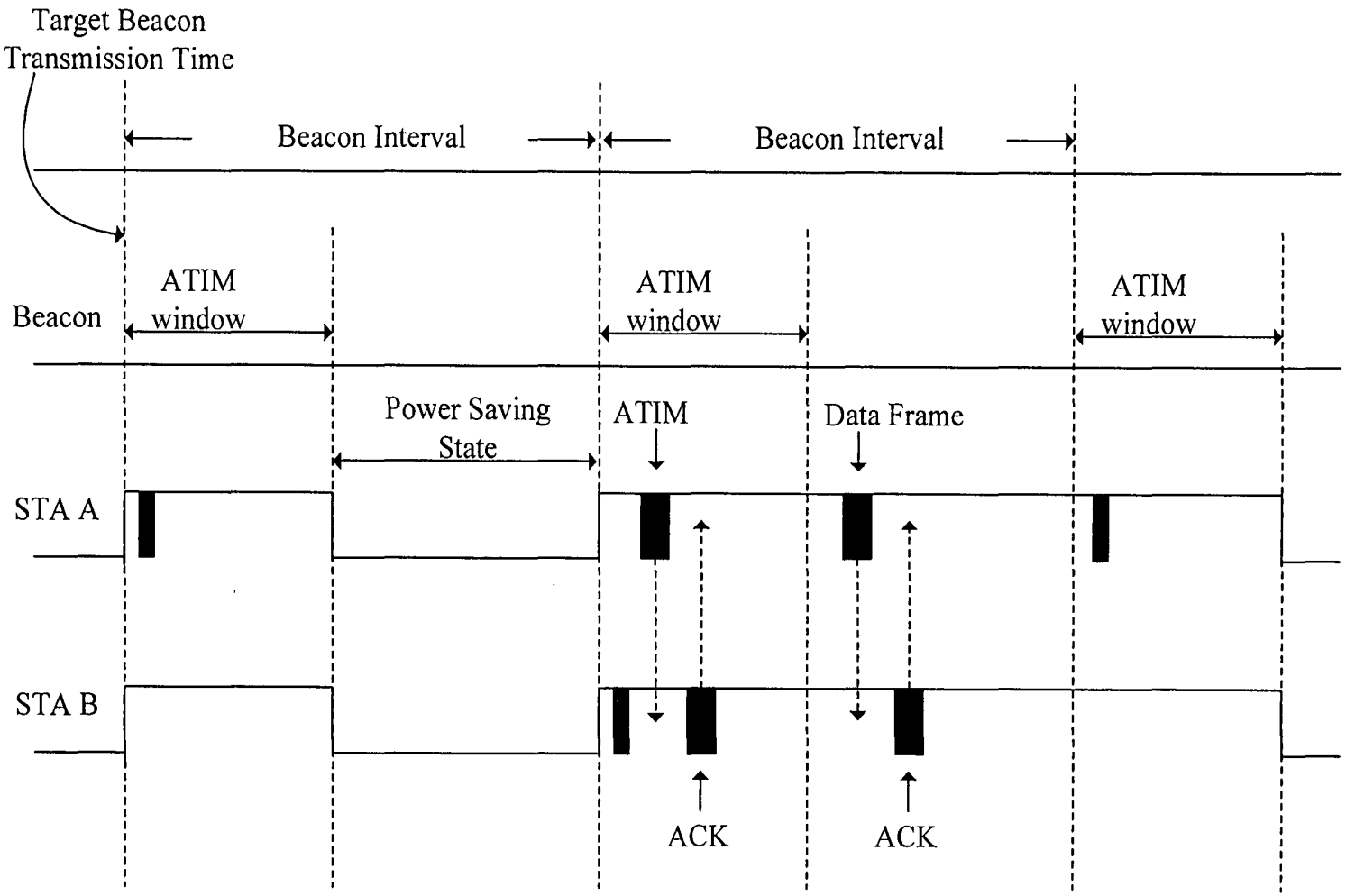

FIG. 2 PRIOR ART

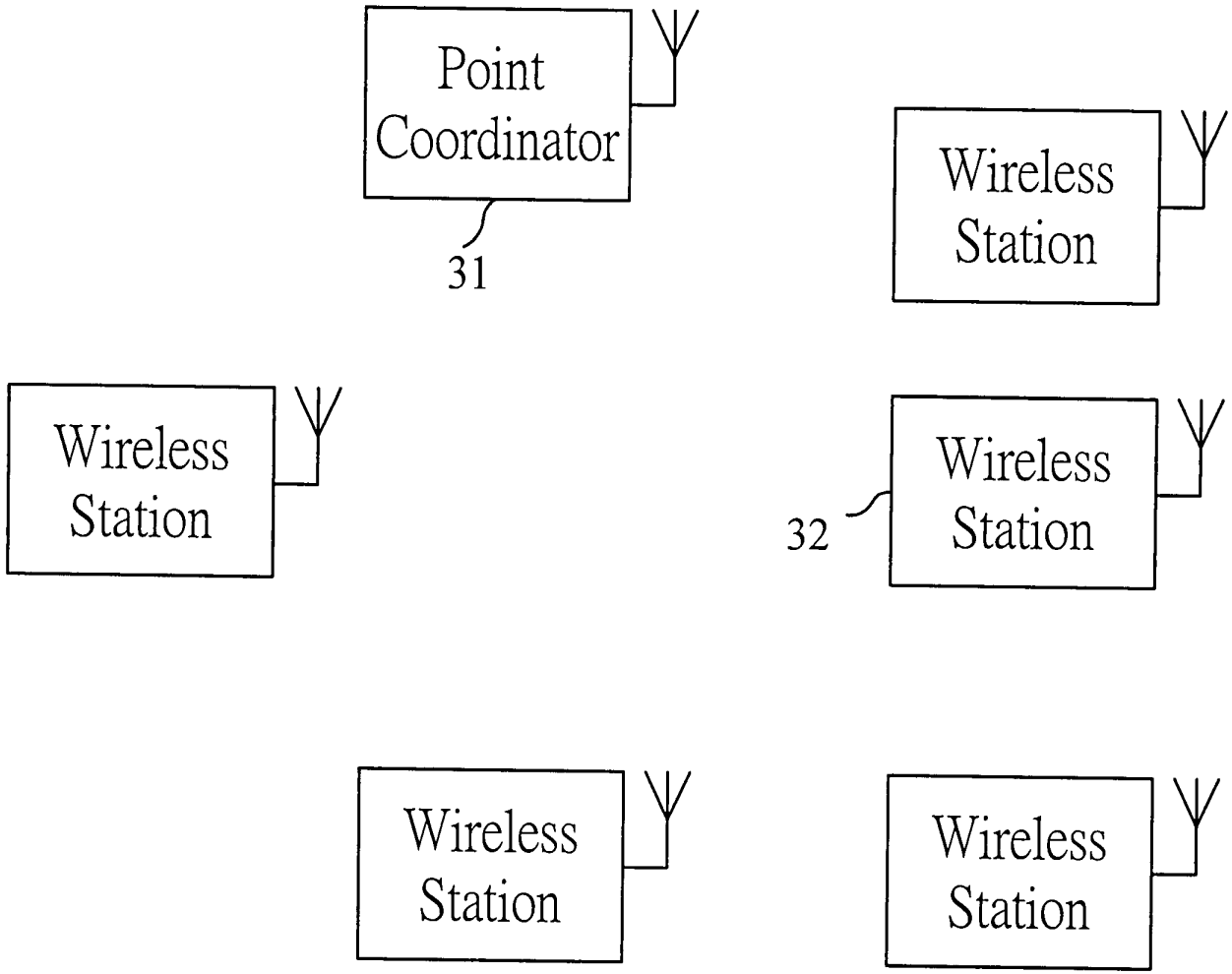
Point Coordinator
31
Wireless Station
Wireless Station
32
Wireless Station
Wireless Station
Wireless Station

FIG. 3

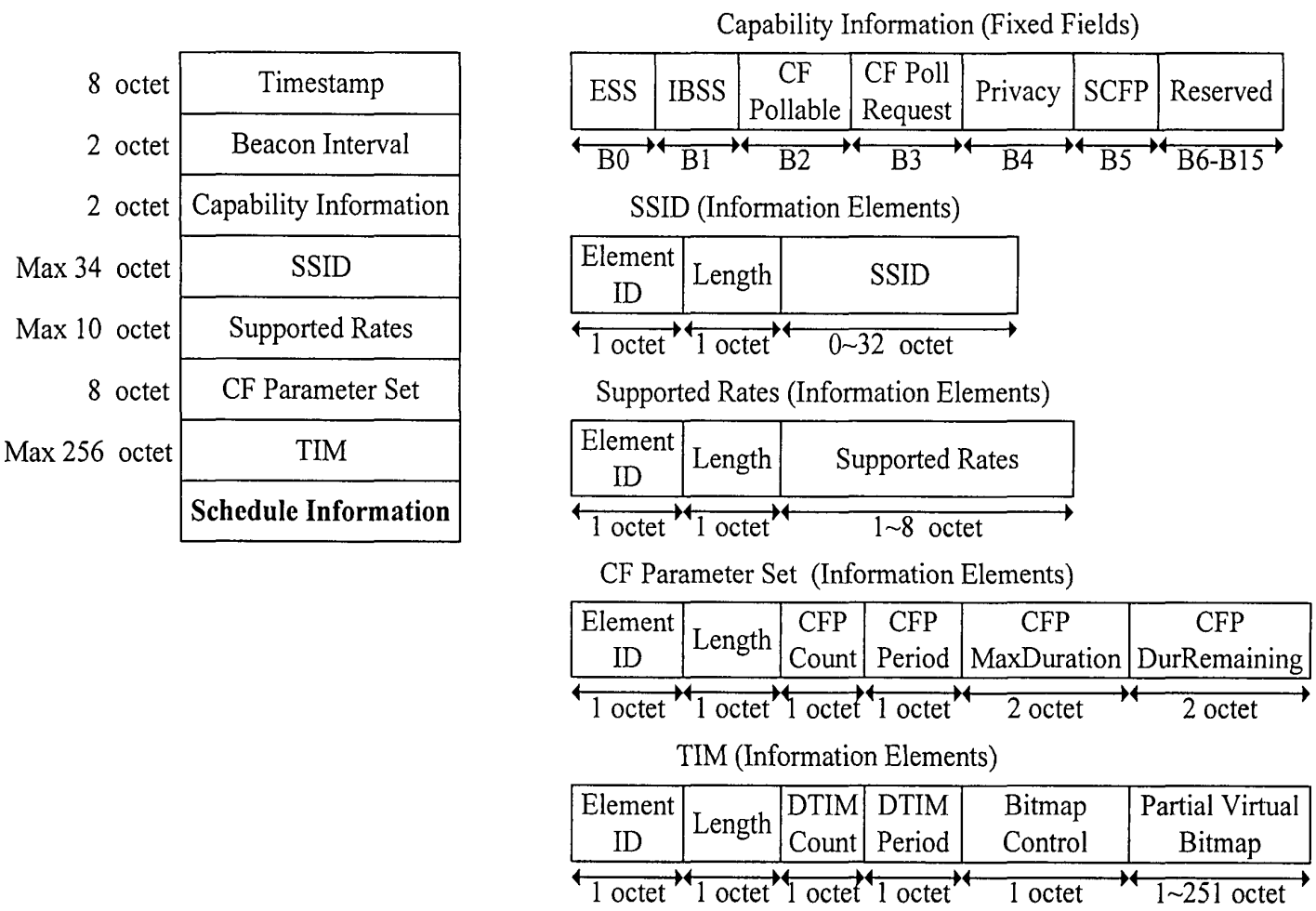
8 octet
Timestamp
2 octet
Beacon Interval
2 octet
Capability Information
Max 34 octet
SSID
Max 10 octet
Supported Rates
8 octet
CF Parameter Set
Max 256 octet
TIM
Schedule Information
Capability Information (Fixed Fields)
ESS
IBSS
CF Pollable
CF Poll Request
Privacy
SCFP
Reserved
B0
B1
B2
B3
B4
B5
B6-B15
SSID (Information Elements)
Element ID
Length
SSID
1 octet
1 octet
0~32 octet
Supported Rates (Information Elements)
Element ID
Length
Supported Rates
1 octet
1 octet
1~8 octet
CF Parameter Set (Information Elements)
Element ID
Length
CFP Count
CFP Period
CFP MaxDuration
CFP DurRemaining
1 octet
1 octet
1 octet
1 octet
2 octet
2 octet
TIM (Information Elements)
Element ID
Length
DTIM Count
DTIM Period
Bitmap Control
Partial Virtual Bitmap
1 octet
1 octet
1 octet
1 octet
1 octet
1~251 octet

FIG. 4

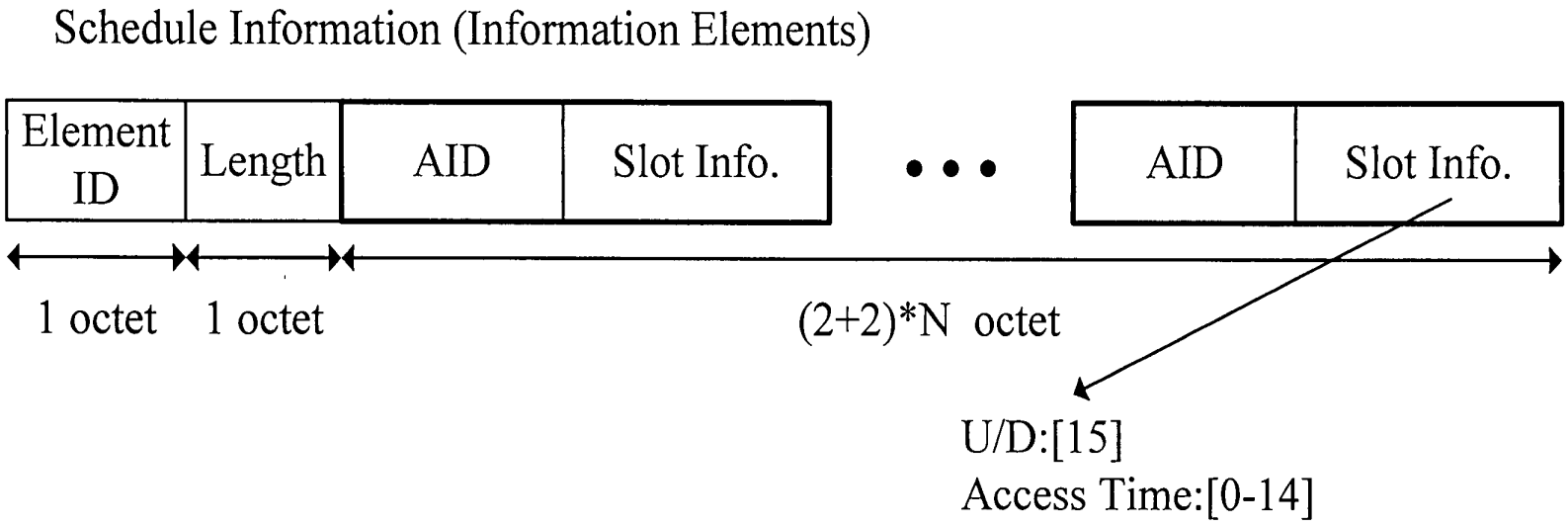
Schedule Information (Information Elements)
Element ID
Length
AID
Slot Info.
AID
Slot Info.
1 octet
1 octet
(2+2)*N octet
U/D:[15]
Access Time:[0-14]

FIG. 5

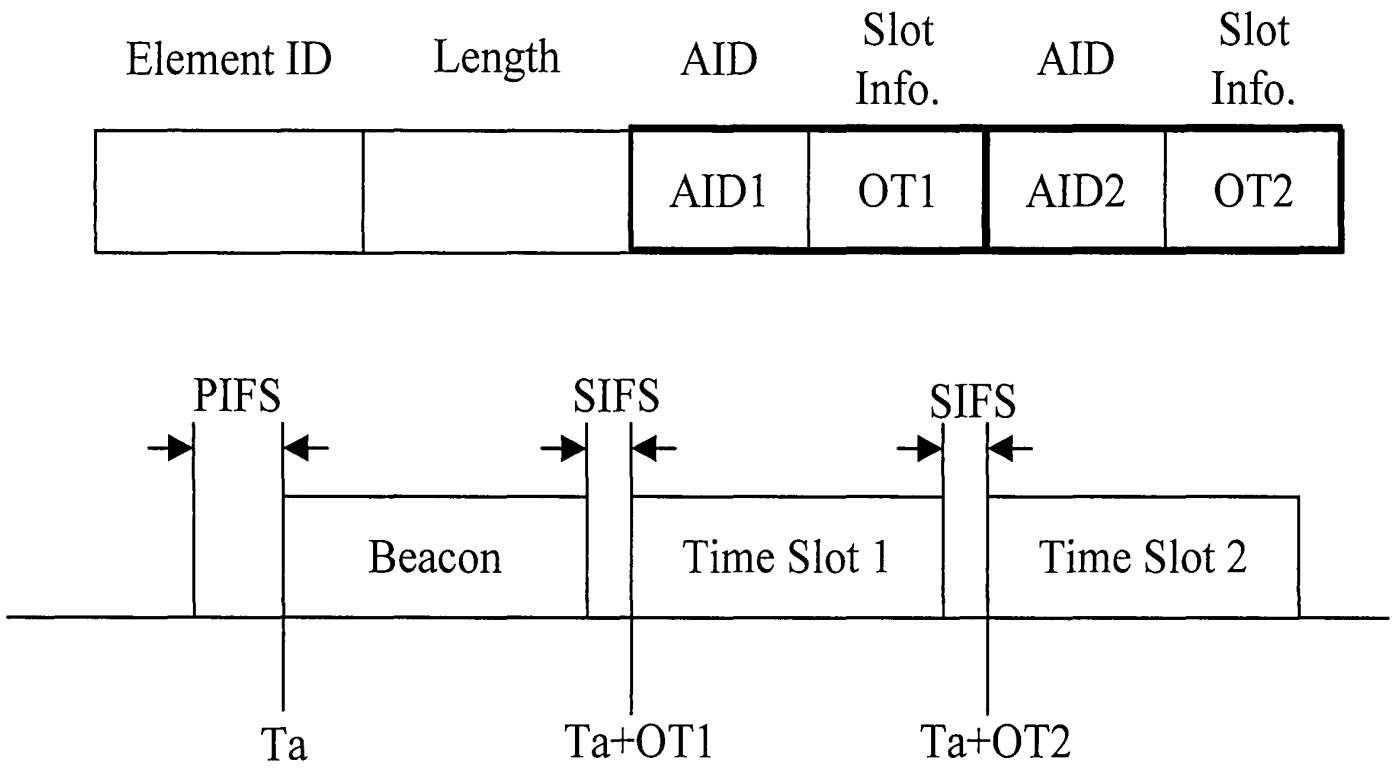
Element ID
Length
AID
Slot Info.
AID
Slot Info.
AID1
OT1
AID2
OT2
PIFS
SIFS
SIFS
Beacon
Time Slot 1
Time Slot 2
Ta
Ta+OT1
Ta+OT2

FIG. 6

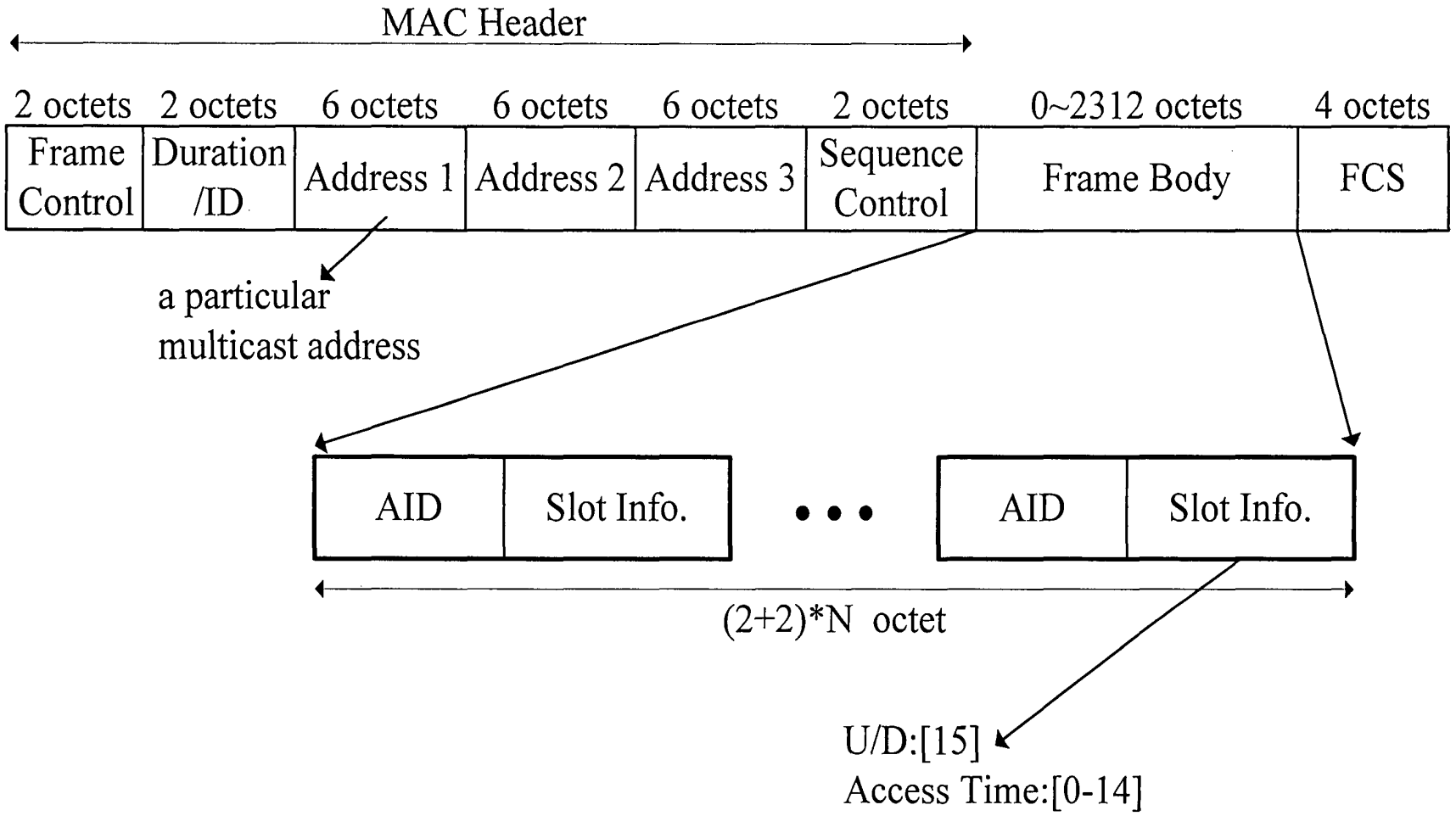
MAC Header
2 octets
2 octets
6 octets
6 octets
6 octets
2 octets
0~2312 octets
4 octets
Frame Control
Duration /ID
Address 1
Address 2
Address 3
Sequence Control
Frame Body
FCS
a particular multicast address
AID
Slot Info.
• • •
AID
Slot Info.
(2+2)*N octet
U/D:[15]
Access Time:[0-14]

FIG. 7

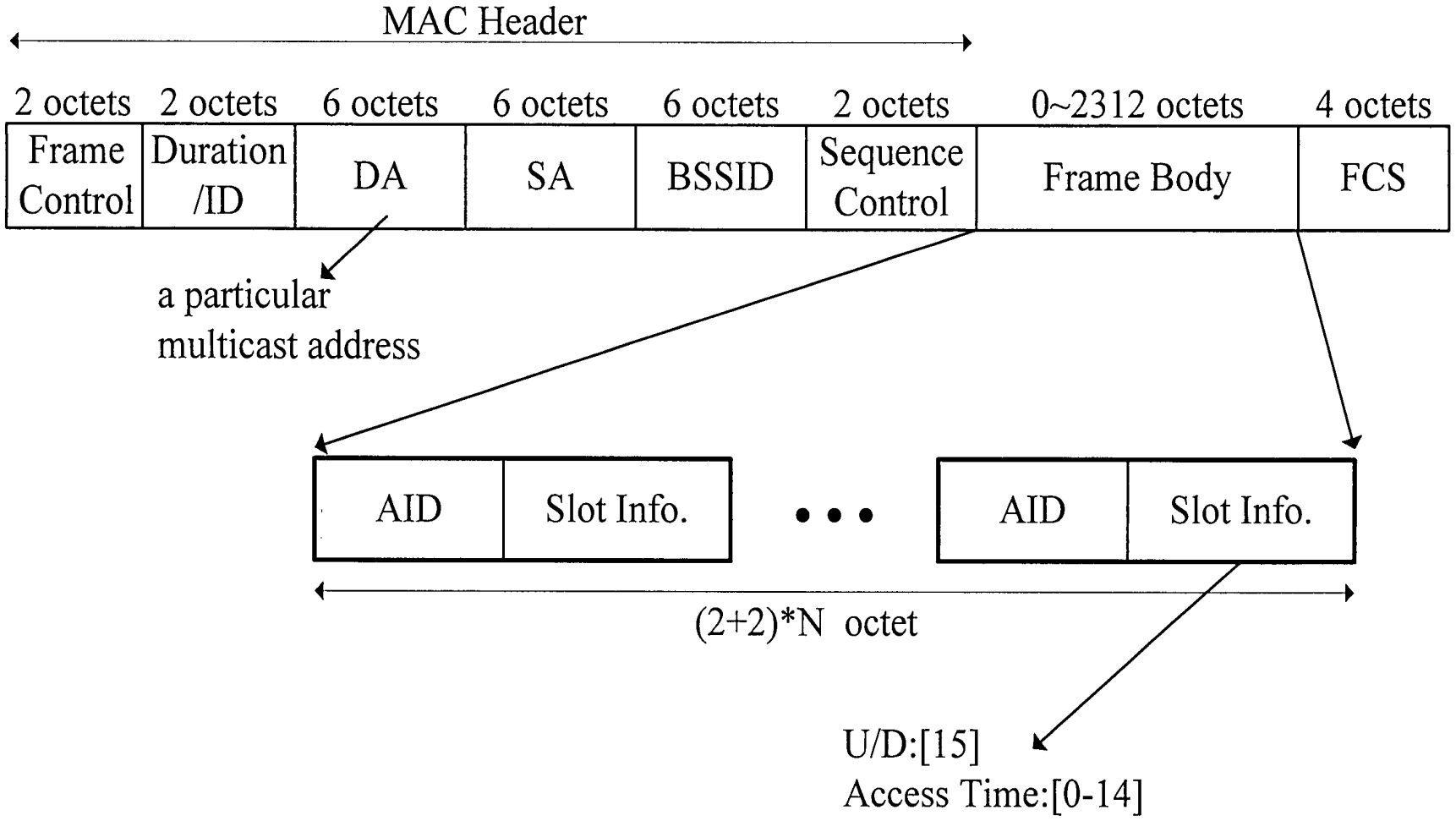
MAC Header
2 octets
2 octets
6 octets
6 octets
6 octets
2 octets
0~2312 octets
4 octets
Frame Control
Duration /ID
DA
SA
BSSID
Sequence Control
Frame Body
FCS
a particular multicast address
AID
Slot Info.
AID
Slot Info.
(2+2)*N octet
U/D:[15]
Access Time:[0-14]

FIG. 8

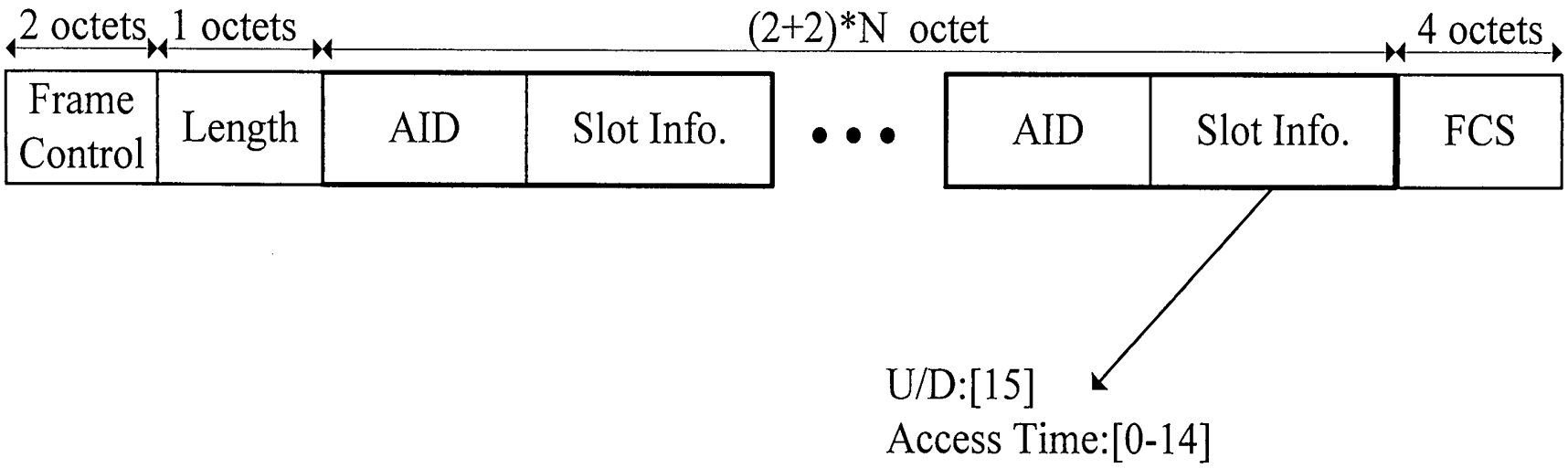
2 octets
1 octets
(2+2)*N octet
4 octets
Frame Control
Length
AID
Slot Info.
AID
Slot Info.
FCS
U/D:[15]
Access Time:[0-14]

FIG. 9

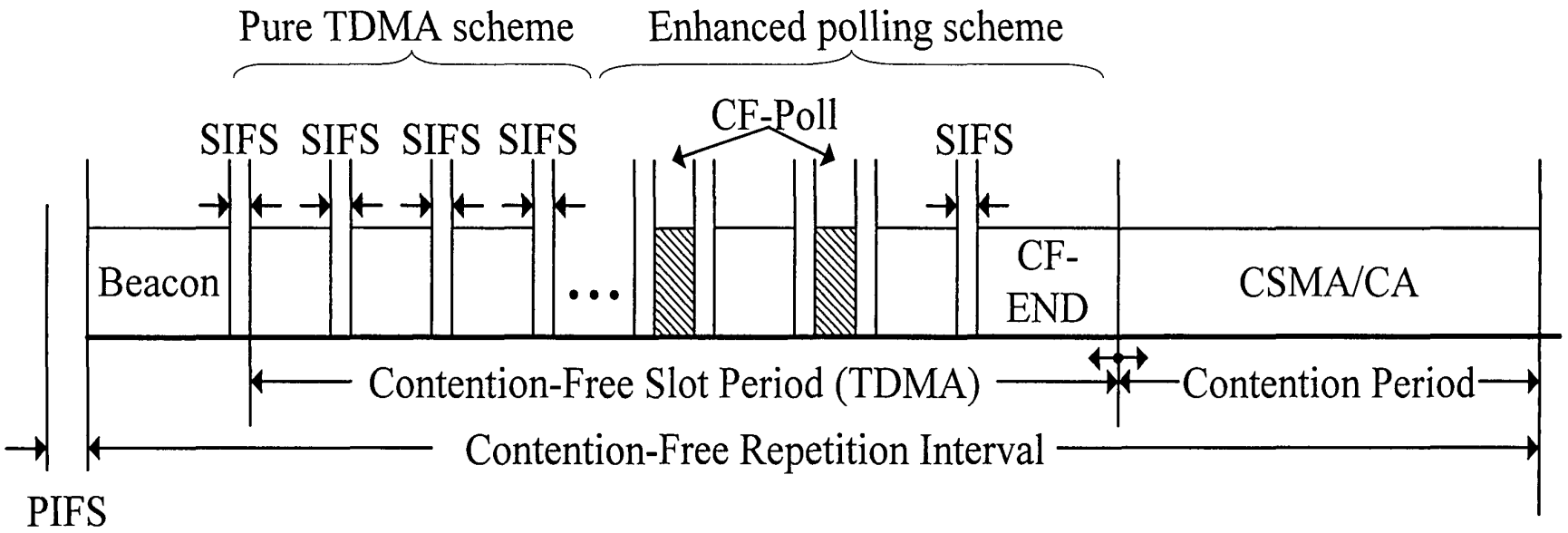
Pure TDMA scheme
Enhanced polling scheme
SIFS
SIFS
SIFS
SIFS
CF-Poll
SIFS
Beacon
CF-
END
CSMA/CA
Contention-Free Slot Period (TDMA)
Contention Period
Contention-Free Repetition Interval
PIFS

FIG. 10

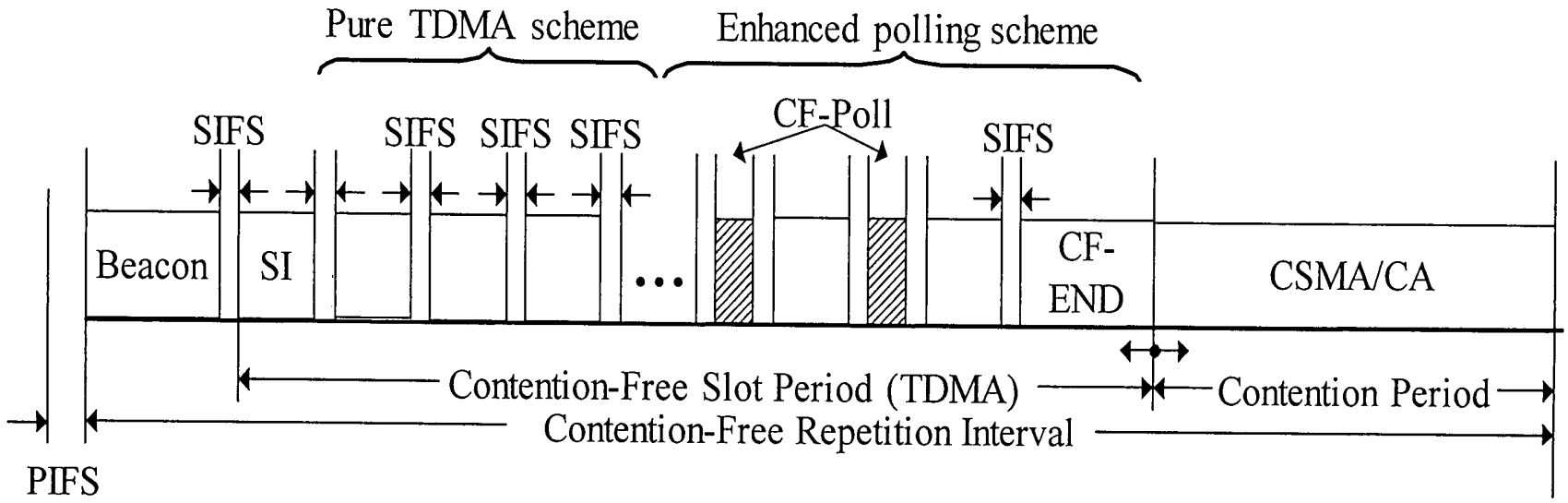
Pure TDMA scheme
Enhanced polling scheme
SIFS
SIFS
SIFS
SIFS
CF-Poll
SIFS
Beacon
SI
CF-
END
CSMA/CA
Contention-Free Slot Period (TDMA)
Contention Period
Contention-Free Repetition Interval
PIFS

FIG. 11

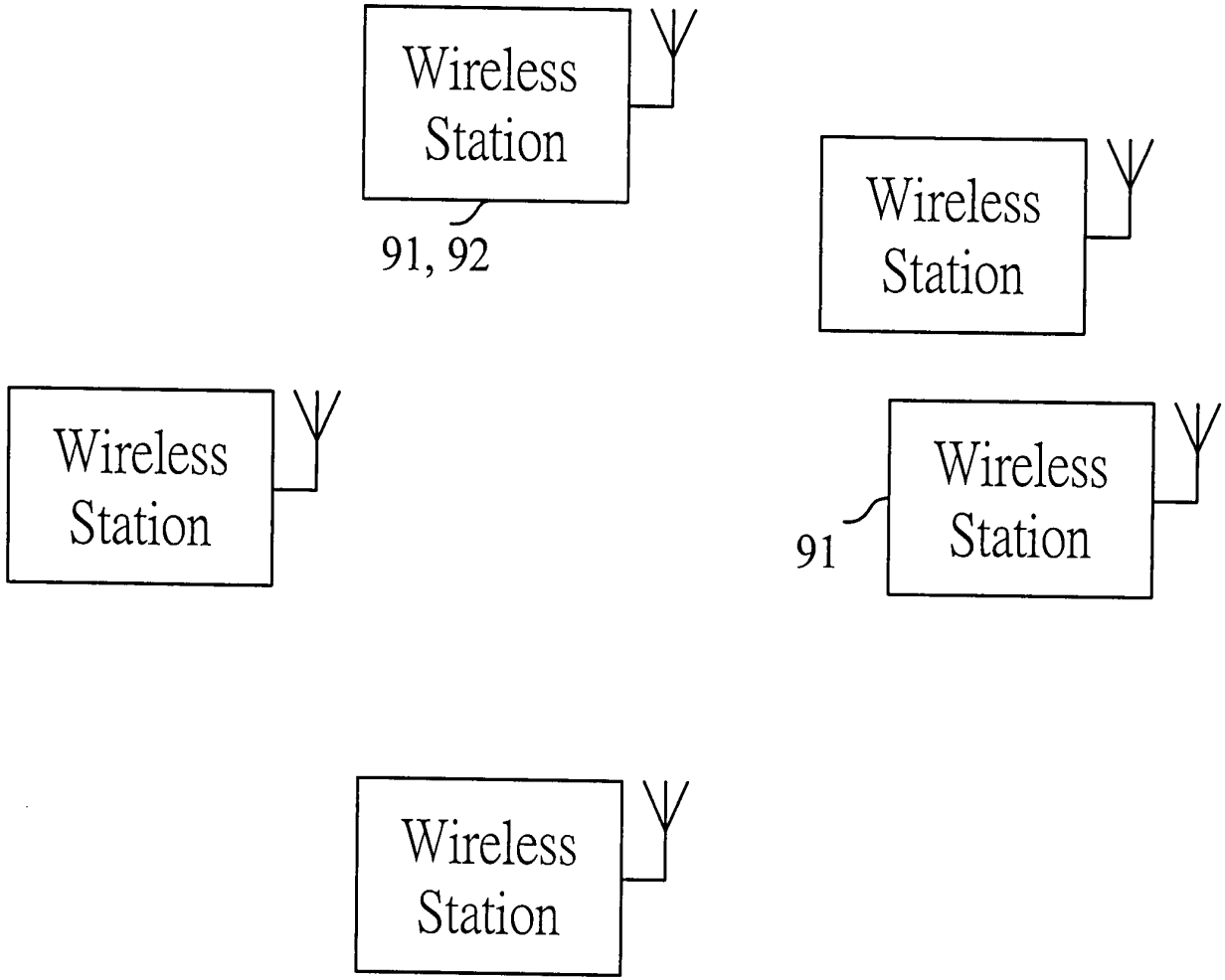
Wireless Station
91, 92
Wireless Station
Wireless Station
91
Wireless Station
Wireless Station

FIG. 12

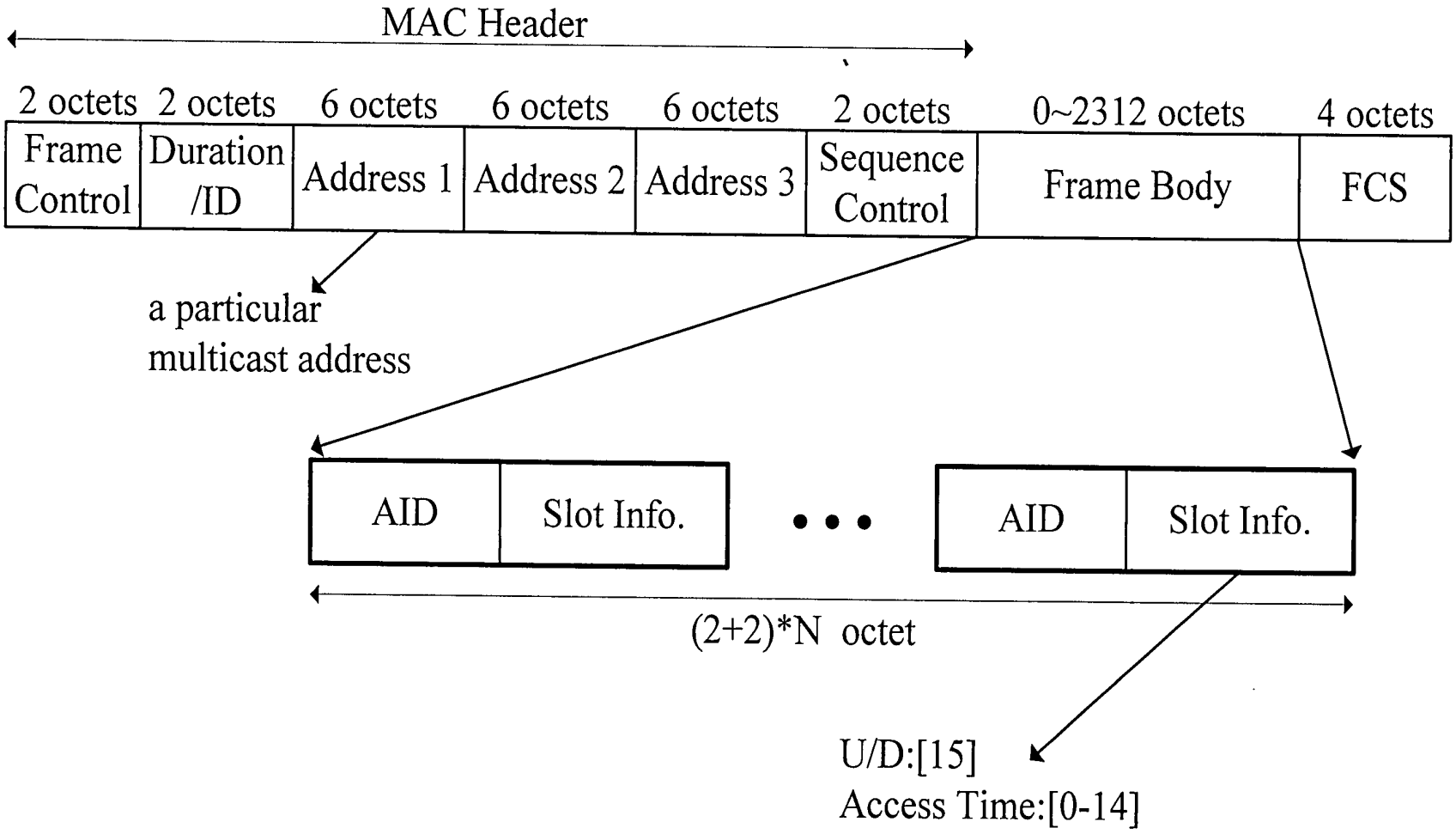
MAC Header
2 octets
2 octets
6 octets
6 octets
6 octets
2 octets
0~2312 octets
4 octets
Frame Control
Duration /ID
Address 1
Address 2
Address 3
Sequence Control
Frame Body
FCS
a particular multicast address
AID
Slot Info.
• • •
AID
Slot Info.
(2+2)*N octet
U/D:[15]
Access Time:[0-14]

FIG. 13

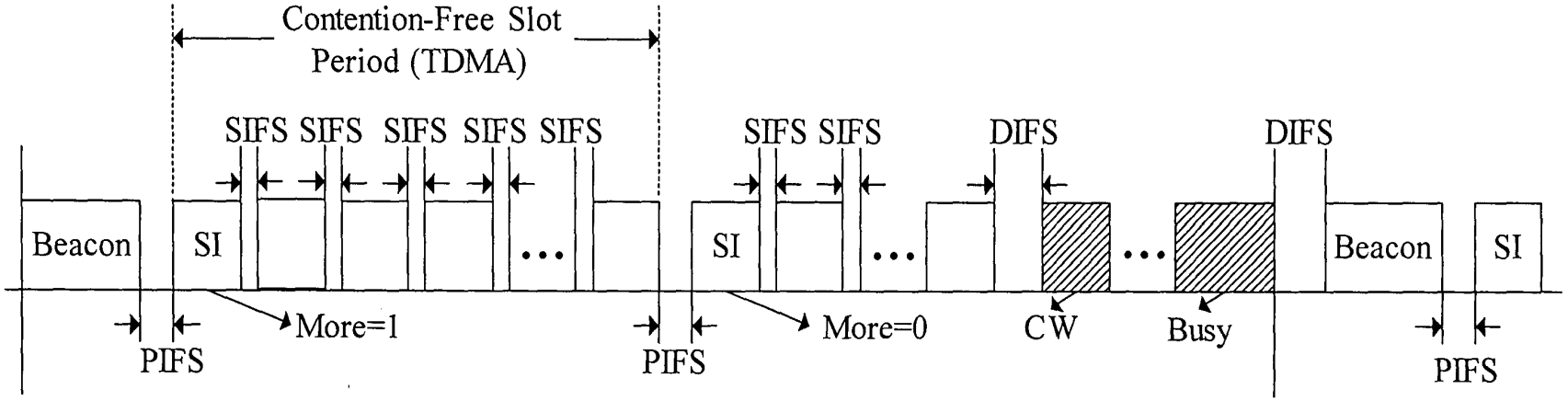
Contention-Free Slot
Period (TDMA)
SIFS SIFS SIFS SIFS SIFS
SIFS SIFS
DIFS
DIFS
Beacon
SI
SI
Beacon
SI
More=1
More=0
CW
Busy
PIFS
PIFS
PIFS

FIG. 14